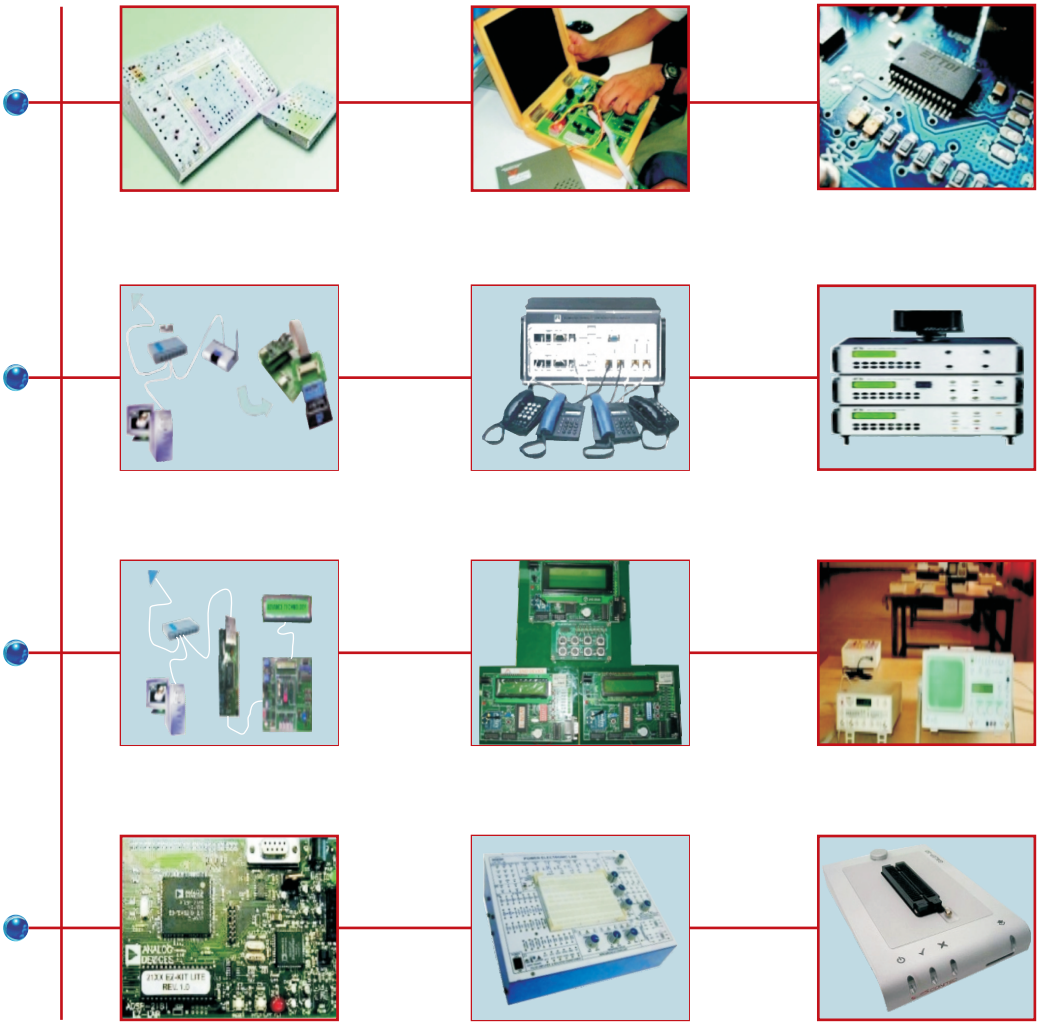
(An ISO 9001:2008 Company)

We Provide Complete Solution

Lab Concepts Training / Workshop-Placement / Customized Solutions



- VLSI Lab
- PLC Lab
- DSP Lab
- Mechatronics Lab
- Fiber Optical lab
- Wireless Communication Lab
- Communication Lab
- Microprocessor Lab
- Sensor Instrumentation Lab
- Renewable Energy Lab
- Computer Science/IT Lab
- Digital /Analog Electronics Lab
- Bio-Medical Instrumentation Lab
- Electrical/Electronics Engg. Lab
- Power Electronics Trainer Lab
- Antenna, Radar & Satellite Lab
- Embedded/ Microcontroller Lab
- Testing & Measuring Instruments Lab

ADVANCE TECHNOLOGY

All the technology you need

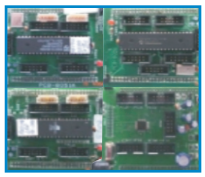
S.C.O. 160, Sector - 24 D, Chandigarh - 160022 Phone : 0172 - 5086213, Fax : 0172 - 2701650
Mobile : 98150-36923, 92166-36923, E-mail : atechindia@gmail.com, Website : www.atechindia.com

Embedded/ Microcontroller Lab

Universal Embedded Development Board

- Facility for learning of various processor on a single board
- E2PROM with 4K memory or more
- RTC DS1307 with 32 Khz
- relays with isolated O/Ps on 3 pin connectors.
- 12V stepper motors with drivers.
- On board LCD display, 8 I/Ps, 8 O/Ps.
- 4 multiplexed 7-segment displays.
- 4-Single bit keys ,8 Channel ADC with Potentiometers
- RS 232 Communications
- The system supports motherboard to interface various

Daughter Boards:



- 8051 Daughter board
- PIC Daughter board
- AVR Daughter board
  (At Mega 8515, 8, 16, 32 etc.)
- ARM7 Daughter board
- ARDUINO Daughter Board
  (Open platform for project development)

NANO Series, Low Cost, for ready to use (in a pack of 10 nos) (All Nano Boards have LCD display)

- NANO 8051 Board
- NANO AVR Board
- NANO PIC Board
- NANO ARM Board
- NANO CPLD 84 Board

ARM Development Board

- Basic / Advance / Universal ARM-7
- ARM-9 development board
- USB JTAG-De-bugger for ARM Family
- IAR Embedded compiler

Interfacing modules

Basic Interfacing Cards

- Graphical LCD (128x64) Display Interfacing Module
- Graphical LCD (16x2) Interfacing Module
- Graphical LCD (240x128) Interfacing Module
- Traffic light study Interfacing Module
- Fiber optic Transmitter Receiver Interfacing Module
- Elevator Interfacing Module
- LED Interface Module
- DAC Interface Module
- ADC Interface Module
- 4 x 4 MATRIX Keypad interface
- 5 x5 MATRIX Keypad interface
- PC Keyboard interface
- MICRO SD Card interface with PIC 18F4550

IR & RF Based Interfaces

- Basic RF Experiment Module
- Motion Control of a CAR Model through RF
- IR Experimental Module (RC 5) Protocol

Sensors

- Temperature Measurement Interfacing Module
- Accelerometer Interface Application Modules
- Proximity (Speed) Interface Application Modules
- Humidity Interface Application Modules
- Pressure Interface Application Modules

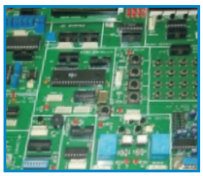
Motors

- Speed Control for DC Motor Interface
- Stepper Motor Interfacing Module
- Servo Motor Interface Module

ROBOT Modules

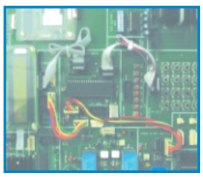
- IR Based Obstacle Detector Robot Module
- RF Based Remote Control Robot Module
- DTMS Based Robot Module
- IR Based Visitor Counter Module

Microcontroller Trainer Kit (8051)



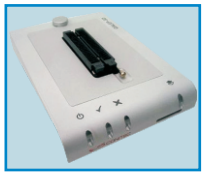
- 89V51RD2 C with ISP features In-circuit
- 8-bit single channel DAC
- RTC with battery back-up
- Two 12V relays with isolated O/Ps
- On board LCD display
- 8 I/Ps from DIP switches
- 8 O/Ps available on LED's
- Four multiplexed 7-segment displays
- 4 push buttons for interrupt study
- USB Programming Facility

Embedded Biometric Development System



- Biometric/Finger print reader module with serial interface
- Facility to interface with microcontroller
- Facility to enroll and verification suitable for project
- On board stepper motor
- On board LCD display
- On board relay & buzzer

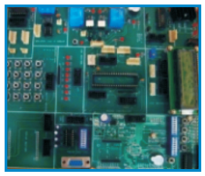
Universal IC/Microcontroller Programer



- Facility for 8051, PIC, AVR etc.
- PC interface through USB port
- Software supports Win9x/XP/ME/2000
- Supports file formats of Bin, Hex & JED
- Supports MCUs of Atmel, Intel, Microchip, Phillips, SST, Winbond, Signetics, Syncoms, Motorola etc. and PLDs of Atmel 16/20/22 Series. Device update possible

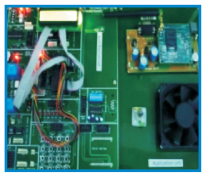
Wireless Communication Lab

Zig Bee Development System



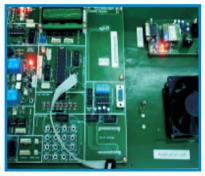
- Zig Bee Coordinator
- On board 8 Channel A/D,8 Digital Input / Output
- 4K E2PROM on chip RTC
- RTC with battery back-up
- Two 12V relays, display & 7 segment display
- 8 I/Ps from DIP switches,8 O/Ps available on LED's Zig Bee End Devices
- Zig Bee End Devices based on SI8051F005
- With power supply 2.8V
- 8 Channel A/D, 8 Digital Input / Output
- 2-PWM Output, 4 Dip switches
- 1 Relay and Buzzer output, LCD Display etc

GSM Development Board



- GSM Development module with 3 band communication
- FME Antena connector support
- Operating status LED 8 nos
- Onboard Handset audio interface
- V.24/V.28 Interface on the connectors
- On Board 89V51 Controllers
- RJ11 Connector for handset connection
- Sim Card Holder , on board 16x2 LCD Display
- Windows Drivers software for GSM Applications
- 4 seven segment display with 2 on board relays for action

Bluetooth Development board



- Useful for teaching bluetooth fundamentals.
- Bluetooth radio modem with serial interface
- Module with Bluetooth stack
- Open field range of 10+ meters
- Low current consumption for long
- battery life, 2.4GHz Frequency Hopping
- Spread Spectrum (FHSS) technology ensures
- Based on MCS51 processor at 11.0592 mhz clock
- 64k Flash memory, 32 Digital i/o

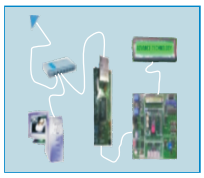
Wi-Fi (IEEE 802.11b) Application Kit

- Useful for teaching Wi-Fi fundamentals
- Wi-Fi Modem with serial interface
- Facility to interface with 8bit microcontroller
- 16 Bit socket for infrastructure and adhoc
- Configuration monitoring tools through Ethernet
- Configuration tools through Serial
- Wi-fi development board with access point
- Based on MCS51 processor at 11.0592 mhz clock
- 64k Flash memory, 32 Digital i/o

RFID Application System

- RFID Reader with serial interface
- 2 Nos. of RFID Tag Cards for Identification
- RFID Libraries for Software Developments
- System should be based on MCS 51 Processor with open I/O Architecture
- Separate Programming Adaptor for Processor
- On board relay for Real Activation of Physical Devices
- Buzzer Indication
- On Board Stepper Motor for movement control
- 16 x 2 LCD Display Module with 4 x 4 matrix keypad
- Single Channel A/D converter
- LM 35 Temperature Sensor

TCP/IP Application Board

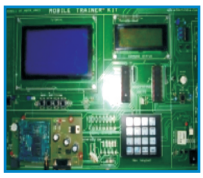


- Serial to ethernet module supporting TCP/IP
- Embedded 8051 TCP/IP Application Board
- 89C51RD2 MCU with on chip 64 k bytes
- ISP flash program memory
- 512 K of EEPROM with RTC, Etc
- 16 x 2 LCD interface to MCU
- 2 Relays interface for remote control
- LED & switch interfaces
- 40 pin FRC connector with address, data and control signals

GPS Development System

- TCXO Protocol support for NMEA & SiFR
- Position accuracy < 10m (without DGPS)
- Extremely fast TTFF at low signal levels
- GSW3 software support and SiRFLoc multi-mode ,GPS support
- Position accuracy < 10m (without DGPS)
- P89V51RD2/P89C668 microcontroller prototyping module
- 64KB on-chip FLASH
- 512 KB external serial I2C-EEPROM

Mobile Training Kit



- The system must be able to explore MOBILE applications
- 240 x 128 Graphical LCD, Video Tutorial and soft manual
- Step by step training thru graphical Lcd
- Facility for learning AT command SET thru LCD Display
- And 4x4 multiplexed keypad
- Alpha numeric keypad for AT Command set
- Fixed / variable SMS to any number thru keypad
- RS- 232 Serial interface
- GSM Frequency 850MHz
- Based on Processor Core: 89V51

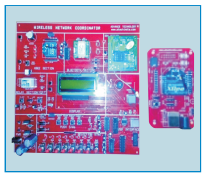
Radio Frequency Application board

- RF Application board with 433 Mhz freq
- Address selection thru two 8 pin Dip switches
- Based with P89V51 CPU, with ISP Facility
- 8-bit-8 channel ADC with I/Ps
- 8- bit single channel DAC
- RTC with battery back-up
- Two 12V relays with isolated O/Ps
- All interrupts available on header
- Dual Display of 16X2 LCD
- 8 O/Ps available on LED's
- Two multiplexed 7-segment displays

ISDN Trainer System:

- 2 ISDN phones & 1 analog phones
- 1 ISDN terminal adapters
- 2 N-Ti for S to U port interface
- Built in protocol analyzer
- Analyze layer 2 & 3
- Display of P, D & B channel
- No physical ISDN Line required
- 3 BRI Ports with S Interface
- 2 channels for each adapters

Wireless Sensor Networking Trainer System (Basic/ Advance WSN)



Wireless Sensor Networking Development system This package provides complete knowledge to design and deploy, Zig Bee protocol based low data rate wireless communication and remote monitoring & control applications using sensors.

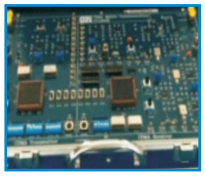
It enables you to learn about wireless sensor networking concepts & topologies.

By using the powerful Xbee hardware tools you can develop ZigBee based in-house tracking applications.

Zigbee software, Zig Bee Master Coordinator, Zig Bee End Devices

Sensor Modules:
Temp. sensor wireless module, Magnetic Sensor, Smoke Sensor PIR Sensors (ceiling mount, indoor, outdoor, periphery etc) Vibration & glass break sensor, IR Sensor, Product Manual/Sample Application in CD Accessories (USB cable & RS232 cable)

CDMA Trainer System



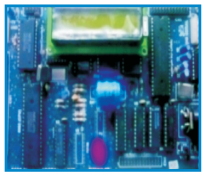
- CDMA Transmitter Receiver
- Signal code speed: 1kbit/s, 2kbit/s
- Spread spectrumcode speed: 100kbit/s
- Spread spectrumgain: 50, 100, 200
- Output: DC ±12V/±5%, ±5V/±5%, -8V/±5%
- Spread spectrummode: direct spread spectrum
- Modulation mode: PSK, DPSK(optional)
- Carrier frequency:10.7MHz
- Experiment Apparatus Host
- AC, DC power supply
- Input: AC 220V±10%

LAN Trainer system

- Panel for Bus Star & Ring Topologies thru separate connectors.
- Hardwired panel with clear technology terms
- Facility for Wireless LAN with access Point
- Tool kit for connectorization
- 3 LAN Hub's for different 2 protocol study (Star, Bus, Ring)
- Metal with front panel for study separate -2
- 220v AC input supply
- Lan wires & RJ45 connector, Software

Microprocessor Lab

Microprocessor Trainer Kit



8085 Microprocessor Kit with LCD Display
8085 Microprocessor Kit with 7-Segment
8086 Microprocessor Kit with LCD Display
8086 Microprocessor Kit with 7-Segment
Interfacing Modules :

- Elevator Interface
- Logic Controller Interface
- Musical tone generator interface
- Stepper Motor Interface
- Traffic Light Interface
- 7 Segment Interface
- Relay Card Interface
- Speed control for DC Motor Interface
- 8255, 8257, 8259 Study Card Interface
- Temperature Measurement Interfacing Card

VLSI Lab

Universal FPGA/CPLD Development package

- On board Configuration reset, LCD display
- 24 input Dip switches and 16 output Leds.
- 4 Multiplexed Seven segment
- Xilinx FPGA XC3S50-4PQ208
- Xilinx CPLD XC9572PC84 ,72 Macrocells
- Parallel III JTAG Cable, User Manual, Sample Code
- Maximum User I/O 150 for Xilinx FPGA
- on board Programming mode facility
- **Interfacing modules:** ADC, DAC, Traffic light, DC Motor, Stepper Motor, Relay Buzzer Card, GSM Interface, Bluetooth Interface board RFID Interface board, 4 x 4 MATRIX Keypad interface PC Key board interface, VGA Interface -SP3, Graphical LCD interface 240X 128 with SP3 board MICRO SD Card interface with SP3, LED rolling display,Graphical LCD Display 128 X 64

Basic FPGA Development Board (Spartan 3)
FPGA with Digital I/Os and power supply

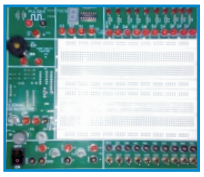
Advance FPGA Board (Spartan 3)
FPGA with ADC, DAC, SPROM and USB interface

CPLD Student project Board

- XC9572 CPLD Device
- 8 Digital I/Ps and O/Ps with LED indication
- Four 7 segment multiplexed display
- Onboard 8 Mhz clock & power on reset circuit
- 16 x 2 LCD,1 Relay, 1 Buzzer
- Four Push buttons for digital input
- 16 I/O for external interface

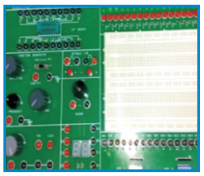
Digital /Analog Electronics Lab

Digital Bread Board Trainer



- Basic Digital Bread Board Trainer
- 10 Digital logics inputs thru Toggle switches
- 10 Digital Logic output thru LEDsy
- Built in power supply (+5, ±12 variable)
- On Board Bread Board:-01 No.
- Built in Signal Generator (sine / square/1 to 10 Khz O/p)
- Seven segment Display: - 01
- Seven segments are provided on board with drive IC 7447
- On board with fully short circuit protected
- On Board Pulser and continuity testers

Advance Analog / Digital Trainer Kit



- Advance Digital Trainer Kit
- Breadboard: 172.5mm.x128.5mm
- DC Power supply: +5V, +12V, 0-12V (variable) with 1 A DC- Voltmeter
- Pulse Generator: square triangle / sign
- Frequency range:1Hz to 700KHz in 6steps
- Variable in between, CRO Input Probe
- Pulser Switches: 2 Nos. (Push to On)
- Solderless IC devices for experimentation
- Data Switches: with Input Dual Color LEDs -16 Nos
- Seven Segment Display: 4 Nos
- 16 No. Output status LEDs with H/L logic Indications

Advance Digital Experimental System (ADES)

- 240 x 128 graphical Display
- ICs along with their IC diagram
- Study the output response on LED's
- On board digital IC tester
- Functional control keypads
- On board signal generator from 1 Hz to 1
- 16 LED output display, buzzer
- The facility to connect diagram Input & Output to virtual selected IC and show / on the LCD
- On board bread board, relay section, 7- segment section 2 Nos

Digital IC Tester

- With LCD 16 X 2,
- Display the working status of Integrated circuits
- 4 x 4 matrix keypad for enter IC numbers
- More than 35 ICs can be tested,
- 5V operate able
- 20 pin ZIF socket,
- Compatible with 16 pin Digital Ics.

Basic Kits for Analog Electronics Lab

- SCR Characteristics Apparatus
- FET Characteristics Apparatus
- PN Junction Diode Characteristics Apparatus with 2 Meters
- Voltage Stabillization Characteristics of Zener diode with 2 Meters
- Zener Diode V-I Characteristics Apparatus (Forward & Reverse)
- LDR Characteristics Apparatus
- Verfication of KCL & KVL
- Ohm's Law Apparatus
- B.H. Curve Apparatus
- LCR Resonance Apparatus
- Clipping Circuit Apparatus
- Half Wave, Full Wave & Bridge Rectifier Apparatus
- Voltage Regulation using IC 317
- Voltage Regulation using 78 Series Voltage Regulators

PLC (Programmable Logic Control) Lab

PLC (Programmable Logic Control)Trainer: (6 input, 4 output all digital)

- Basic PLC (Programmable Logic Control) with digital input /output
- Allen Bradley Micrologix PLC. Configurable to both 24v dc & 230vac
- Built in 24 V DC power supply, I/O LED indication on front line panel
- 6 inputs, 4 outputs Isolated,64 Kbytes memory
- I/O simulating devices (switches, Proximities, pushbuttons), Facility of Stepper motor control system ,with Powers supply Facility for proximity / capacitive Based
- Control, and counting

PLC (Programmable Logic Control)Trainer: (14 input, 10 output, 2 analog I/P & O/P

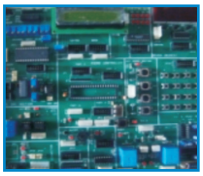
- Basic PLC (Programmable Logic Control) with digital input /output
- Allen Bradley Micrologix PLC. Configurable to both 24v dc & 230vac
- Built in 24 V DC power supply, I/O LED indication on front line panel
- 14 inputs, 10 outputs, 2 analog I/P & O/P) Isolated
- 64 Kbytes memory
- I/O simulating
- devices (switches, Proximities, pushbuttons), Facility of Stepper motorcontrol system ,with Powers supply. Facility for proximity / capacitive
- Based Control, and counting

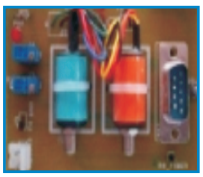
Experimental Panel For Analog And Digital PLC

- Sequential motor starter interface, Star / delta starter interface
- DOL Starter, Water level controller, Reaction vessel interface
- Resistance welding interface, Traffic Light interface
- Car parking interface, Piston cylinder interface
- AC/DC Drives Trainer, HMI
- Speed Control of 3 Phase induction Motor

Fiber Optical lab

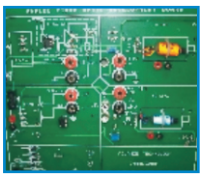
Embedded Fiber Optic Application Board





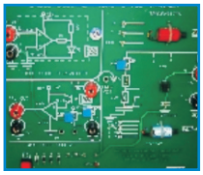
- Embedded Fiber Optic Application Board
- Receiver system with SMA Connectors
- 6V DC Power Supply
- Vin/V out TTL
- Based on MC-51 controller at 11.0592 mhz clock
- 64k Flash memory
- 32 Digital I/O
- On board stepper motor interface, LCD display
- On board relay & buzzer interface

Analog Fiber Optic trainer kit



- With transmission wavelength 660nm,
- Red visible Laser output
- Receiver module with 660nm (Approx.) with Silicon Photo detector
- Connecting via spinner type connector.
- Two meter PMMA plastic fiber cable.
- Voice communication: Fiber optic link wing condenser MIC & Speaker
- N.A. Jig & N.A. Scale 1no. Each

Digital Fiber Optic trainer kit



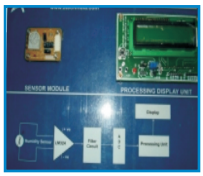
- With transmission wavelength 660nm
- Red visible Laser output
- Receiver module with 660nm (Approx.) with Silicon Photo detector
- Connecting via spinner type connector
- Two meter PMMA plastic fiber cable
- Inbuilt function generator for square wave of 100 H 10 khz
- TTL Input External/ Internal Function generator

Sensor & Instrumentation Lab

PC Based Transducer development Board (Data Acquisition System)

- sensors :Temp Sensors (LM35, PT100), Proximity switches,
- DR (LM 324 & LDR) & IR Sensors
- (Receiver with Encoder/decoder), proximity switches
- With PC Interface through USB Bus with data acquisition system
- Having 8 channel 12-Bit Analog Inputs, 2 analog outputs
- 20 Digital Input output lines with 2 no of relays
- Facility for external signal interface , with Potentiometer
- PGA with Gains of 1, 2, 4, 5, 8, 10, 16, or 20 V/V
- 2 Analog Outputs ,20 Digital I/O (Up to 50 Hz per I/O)
- 32-Bit Counter with Watchdog Timer Function
- USB 2.0/1.1 Low Speed Interface

Humidity Measurement Trainer Kit



- Microcontroller based humidity control system
- Humidity sensor module with resistance type
- Linear dc Output voltage for 0-100 % RH
- On board SYH-2 / SYHW-2 Sensors
- Wide temp. compensation range, LCD Display

Ultrasonic Distance Measurement Sensor Trainer

- Range: 6 inches to 15 inches
- Accuracy: 1 inch
- In built Power supply :5 volts DC
- Onboard controlled LCD Display
- On board Test points to study the Signals during operation of Sensor
- Faults study using hardware switches, during Operation
- 15 inches scale for distance measurement concept study
- Re-Programmable Development Facility

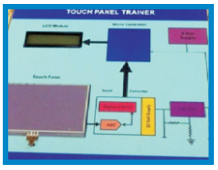
Accelerometer Trainer

- Onboard 3.3V Low Drop voltage regulator with input range of 3.6V to 6V
- Supply voltage (Vdd): 2.2V to 3.6V @ 400µA (accelerometer supply range)
- Sleep mode current: 10 µA
- Sensitivity: 1.5g : 800 mV/g 6g : 206 mV/ g
- Static Acceleration : XOUT,YOUT @ -1g: 0.85V @ 0g: 1.65V @ +1g: 2.45V
- Bandwidth: X, Y axis: 400Hz
- Output Impedance : 32KO

Proximity Sensor Trainer

- Platform to learn metal detecting facility using proximity metal detector
- Dc motor mechanism to produce rpm
- Rpm count display facilty to observe count results
- Switches control to control direction and motor speed
- USB support to program the hardware and for software changes
- Voltage control variac to speedup, speed down the counts, speed

Touch Panel Trainer



- 8051 compatible
- 16*2 LCD display to show value of X,Y Co-ordinates value
- On board power supply section with power indicator and test point
- Output Reading Rate Every 50 Mili Seconds
- Data Format (Fixed Length) 22 Byte ASCII
- The XY are co -ordinates of touch and Z is pressure Value

Carbon Monoxide Sensor Trainer

- MQ7 CO sensor based
- Microcontroller Controlled Facility
- 16*2 LCD display to show value of CO Value in air
- Alarm after a predefined value of CO in air
- On board power supply section with Power indicator and Testpoint

Carbon Dioxide Sensor Trainer

- MG811 Carbon dioxide sensor based Microcontroller Controlled Facility
- 16*2 LCD display to show value of Carbon Dioxide value in air
- Alarm after a predefined value of Carbon dioxide in air
- On board power supply section with power indicator and test point

Linear Voltage Differential Transformer(LVDT)

- AC-AC spring Loaded LVDT
- Microcontroller Controlled Facility
- 16*2 LCD display to show value of displacement
- Can detect displacement of 0 to 14.5 cm

Strain Gauge

- Rectangular Foil type strain gauge sensor 350 ohm Bonded on a flexible metal strip and connected in wheat stone bridge configuration
- On board Power supply of +5V DC
- On board instrumentation Amplifier AD620 section
- 16X2 LCD Display for displacement readings
- Microcontroller 8051 on board for processing
- Test point for Strain Gauge and Amplifier output with easy to plug banana connectors

Color Sensor trainer

- RGB color sensor
- 8051 compatible
- 16*2 LCD display to show value of Color
- Can detect different color up to 10 color
- On board color strip provided for experiments
- On board power supply section with power indicator
- Test point for observations

Solar Trainer

- 2 high Performance Photovoltaic Cell
- Typical Power of 10Wp for a 12VDc voltage
- Environmental factors protection
- Solar Panel mounted on an anodized Aluminum structure with wheels for mobility, and with calibrated cell to measure solar radiation
- Maximum nominal power: 10W
- Voltage at maximum power point (Vmpp): 12.0 V
- Current at maximum power point (Impp): 0.25 A
- Charge controller 12v dc, invertor 14v
- 220 volt Ac, 12v dc loads to study load test
- Battery offering optimal performance with low power applications. Capacity12V : 7Ah
- Set of interconnection cables
- Anodized aluminum framework for modules allocation

Brushless Dc Motor

- 24V/ 40W DC BLDC motor with Driver (24V DC/ 40W)
- Controlled internally by motor driver
- Controlled Externally by controlling unit
- Selector switch for internal or external control
- PWM output for RPM measurement can be connected to CRO
- User RPM selection switches
- With power supply of 24V DC/ 2.5A

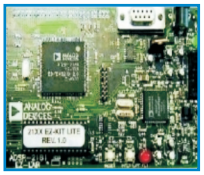
Water Flow Measurement Trainer

- 1~12 L/min Flow rate Range measurement
- Flow control provision
- Flow rate display unit
- On board BNC socket for CRO connectivity
- Inbuilt power supply
- Durable water container
- Unbreakable metal enclosure
- Capable to operate in commercial temperature
- Range of 0 to 80 degree C
- Works with Liquid temperature less than 120 degree C

Stepper Motor Trainer

- With power supply of 24VDC/ 2.5A
- Switch for control Current
- Switches for controlling the Step angle
- Switch to control speed and direction
- Big (torque=3nm) and small (Torque=0.5nm)stepper motor with driver

DSP Lab



- ADSP 21XX based DSP Board
- ADSP BF53X Balckfin Development Board
- DSP Trainer Kit (TMS320C-67XX)
- TMS 320LF 2407 development board

Communication Lab

- Communication System Trainer
- Fiber Optic/LED/Laser Expt. Panel
- 1 Channel sampling & Reconstruction, 4 Channel
- TDM/PAM & PPM, PWM Expt. Panel
- Carrier modulation/Demodulation Expt. Panel
- 2 Channel Pulse Code Modulation (PCM)/Demodulation
- Delta/Adaptive/Sigma/Mod./demod Expt. Panel
- AM Modulation & Demodulation Expt. Panel
- AM Demodulator cum AM-FM Receiver Expt. Panel
- FM Modulation & Demodulation Expt. Panel
- Data Formatting/Reformatting Expt. Panel
- Fourier analysis cum synthesis panel (FAS)
- Transmission Line Expt. Panel

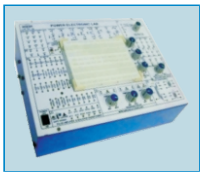
Bio-Medical Instrumentation Lab

- RPM/BPM/HRM/Pulse Oximeter Expt. Panel
- ECG/EMG Study Experiment Panel
- RPM Body Impedance Measurement Experiment Panel

Electrical/Electronics Engg. Lab

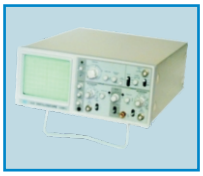
- Analog Digital Trainer
- Electrical and Electronics System Trainer
- Networks & Fields -Discrete Electronics
- Electrical Machine Trainer
- 3 PHASE Induction Motor Fault Simulators
- Digital Electronics -OP-AMPs/Linear Electronics
- Power Electronics -Communication Electronics
- 3 PHASE Induction Motor Speed Control Trainer

Power Electronics Trainer Lab



- Power Electronics Trainer
- Applied Power Electronics Trainer
- SCR Characteristics
- TRIAC Characteristics
- UJT Characteristics
- DIAC Characteristics
- UJT Relaxation Oscillator
- FET Characteristics (Application & Boards)

Testing & Measuring Instruments Lab



- Analog oscilloscope (CRO)/Digital Storage Oscilloscope (DSO)
  10Mhz, 20Mhz, 30Mhz, 60Mhz, 100Mhz, 25MHZ, 40MHZ,60MHZ, 100MHZ
- Function Generator: 1 Mhz, 3 Mhz,
- RF Signal Generator, Frequency Counter, Spectrum Analyzers, Logic Analyzer

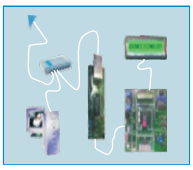
Antenna, Radar & Satellite Lab

- Antenna Training System
- Satellite Communication Training System

OUR SERVICES

- ☑ FACULTY DEVELOPMENT PROGRAM
- ☑ INDUSTRIAL TRAINING
- ☑ WORKSHOP SEMINAR
- ☑ TECHNICAL PDP
- ☑ CUSTOMIZED TRAINING PROJECT
- ☑ RESEARCH AND DESIGN
- ☑ CUSTOMIZED PCB's

Computer Science/IT Lab



- Wireless Networking Lab
- Cloud Computing Trainer
- Android development tool
- Networking Software
- Embedded development tool

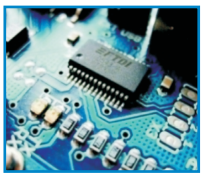
Mechatronics Lab

- Sensor and Instrumentation Trainer
- 20 Sim Software
- Robotic development studio
- Process Control Trainer
- PLC/DCS Trainer
- Data Acquisition Area
- Pneumatic and Electro Pneumatic Trainer System
- Hydraulic and Electro Hydraulic Trainer System

Renewable Energy Lab

- Basic /Advance Solar Trainer
- Wind Energy Trainer
- Fuel Cell Trainer
- Cloud Computing Trainer

Software for Embedded / VLSI/ DSP



- IAR Compiler
- Mentor DSP
- 20Sim for Control lab
- Microwind Software
- FEKO and Antenna Magus
- Target 3001
- Net disturb software
- IP Traffic software

Industrial Training

- Embedded System Design
- VLSI Design
- Embedded Wireless
- PCB Design
- PLC/Industrial Automation
- Project Oriented Training
- Weekend Classes
- (6 Months / 6 Weeks Industrial Training)
- Provide on Site Workshop Training on following
  Wireless Technology Embedded System, VLSI Design

Self Learning projects/ Project Development System

- Project PCB for 8051
- Project PCB for PIC
- Project PCB for AVR
- Project PCB for ARM
  (All Projects Components are available)

ADVANCE TECHNOLOGY

S.C.O. 160, Sector - 24 D, Chandigarh - 160022 Phone : 0172 - 5086213, Fax : 0172 - 2701650
Mobile : 98150-36923, 92166-36923, E-mail : atechindia@gmail.com, Website : www.atechindia.com